18445

NAUTICAL CHART 18445

POSSESSION SOUND TO OLYMPIA

Including Hood Canal

WASHINGTON

MERCATOR PROJECTION AT SCALE 1:80,000

SOUNDINGS IN FATHOMS

(FATHOMS AND FEET TO ELEVEN FATHOMS)

NORTH AMERICAN DATUM OF 1983
(WORLD GEODETIC SYSTEM 1984)

HEIGHTS

Heights in feet above Mean High Water

AUTHORITIES

Hydrography and topography by the National Ocean Service, Charting and Geodetic Services with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.
Photographs through the courtesy of the U.S. Coast Guard.

ABBREVIATIONS

For Complete list of Symbols and Abbreviations, see Chart No. 1

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 7 for important supplemental information.

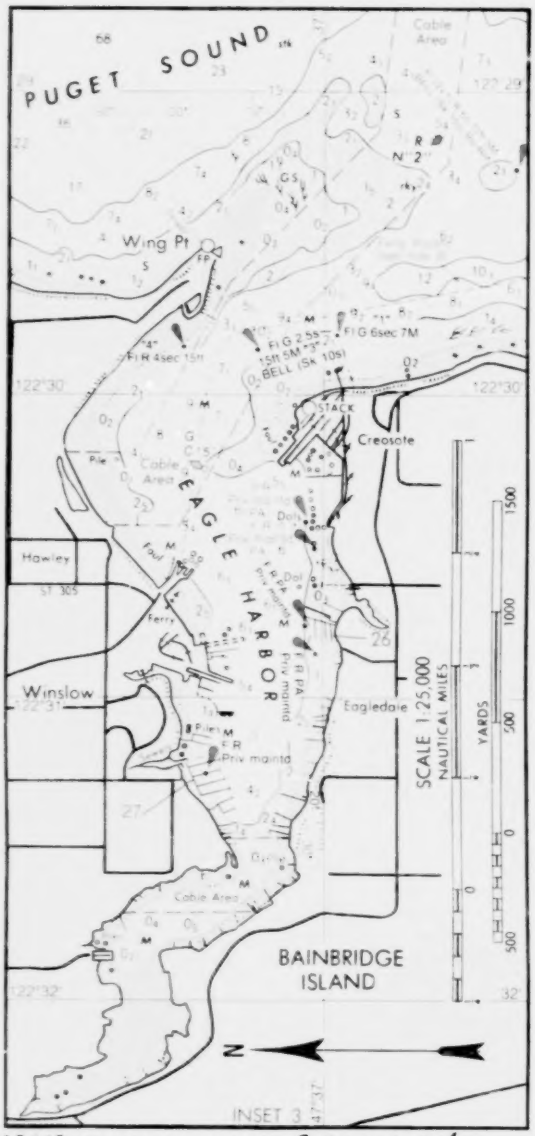
CAUTION

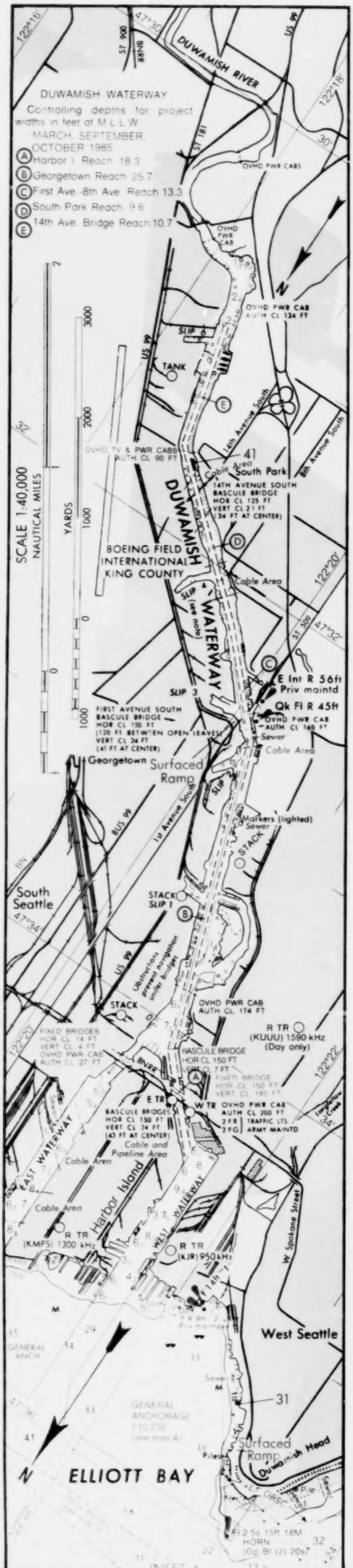
This chart has been corrected from the Notice to Mariners published weekly by the Defense Mapping Agency Hydrographic/Topographic Center and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district; the date shown in the lower left hand corner.

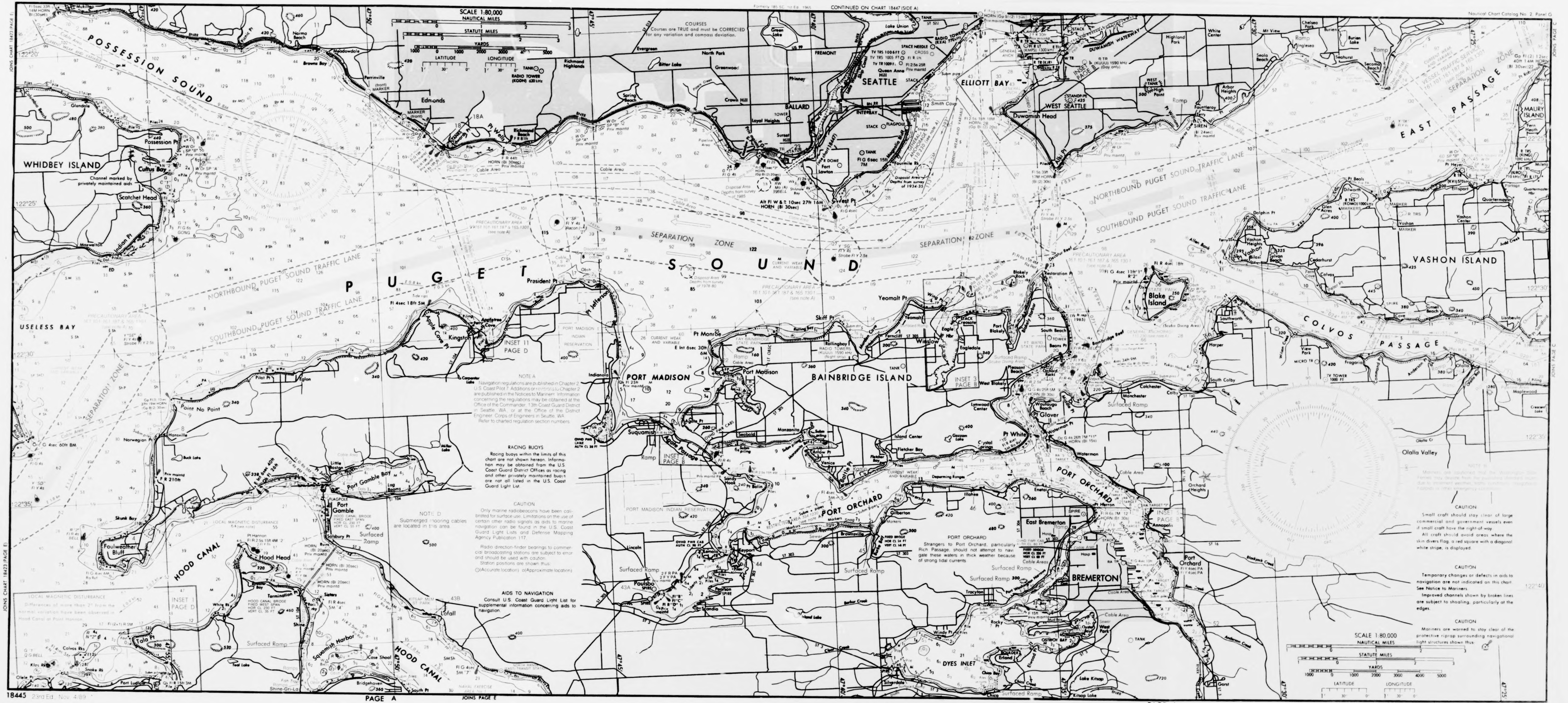
COURSES

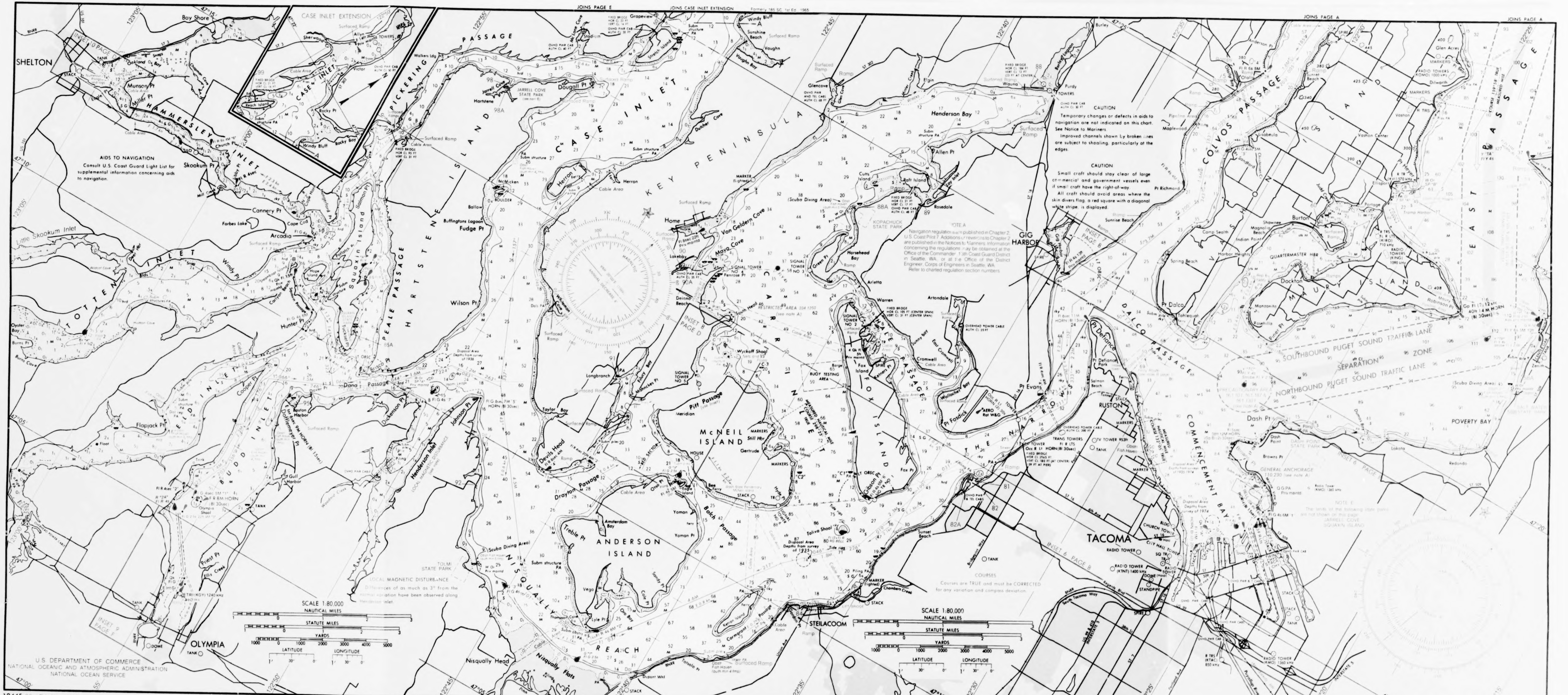
Distances are given in International Nautical Miles. Courses are TRUE and must be CORRECTED for any variation and compass deviation.

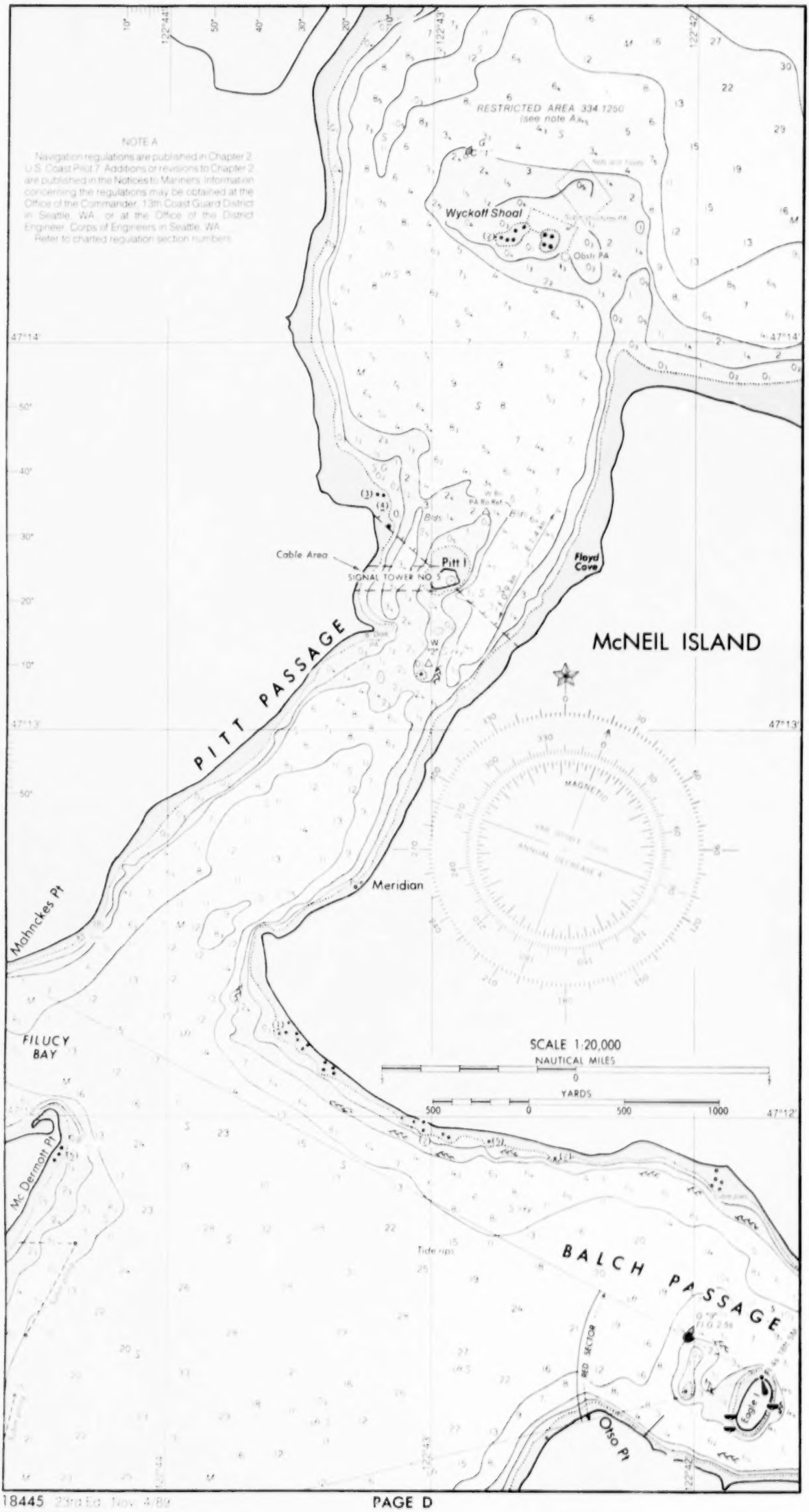
Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

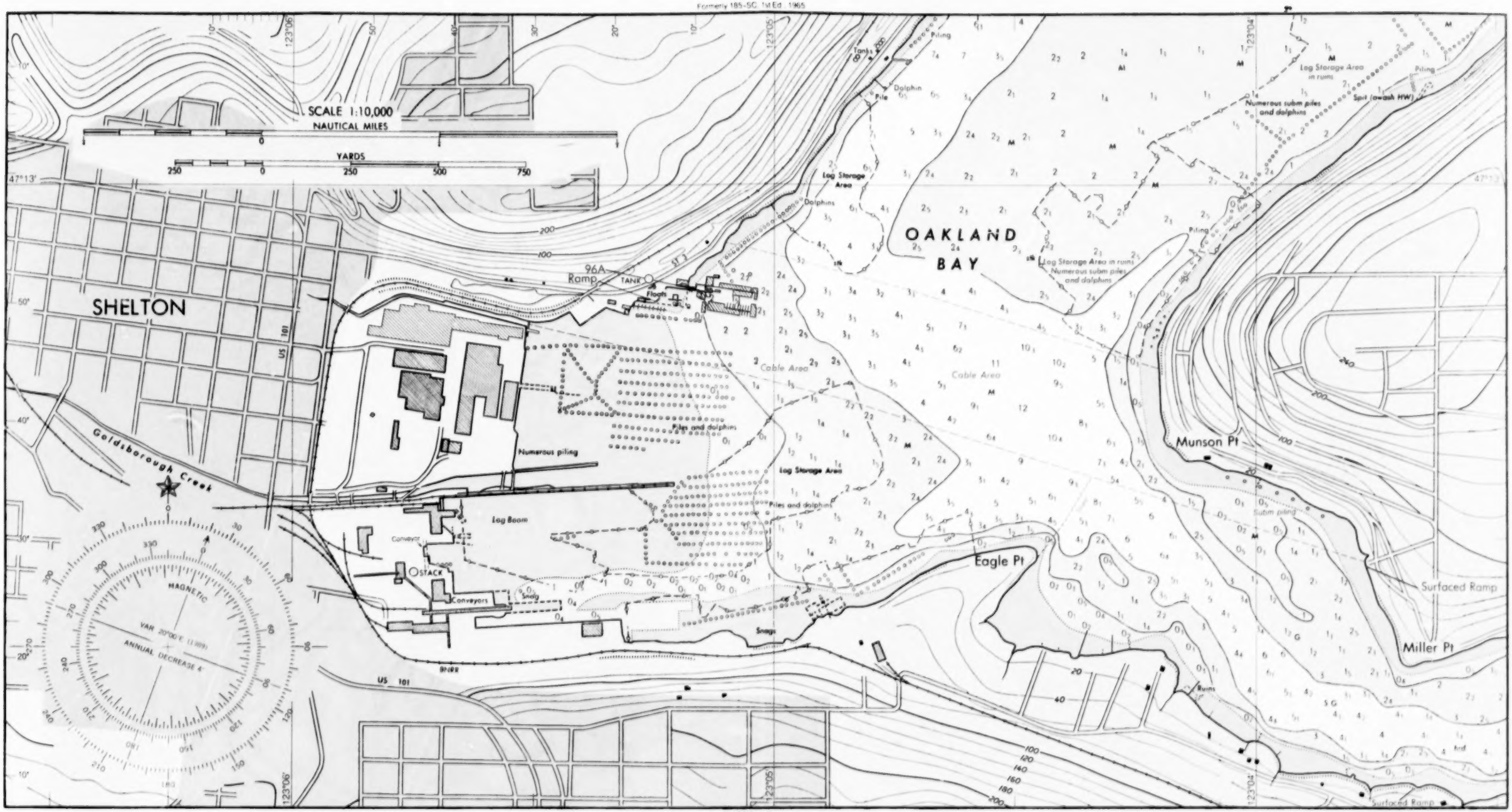





CONTINUED ON CHART 18447 (SIDE A)
SCALE 1:80,000
NAUTICAL MILES
STATUTE MILES
YARDS
LATITUDE
LONGITUDE
COURSES
Courses are TRUE and must be CORRECTED for any variation and compass deviation.
POSSESSION SOUND
WHIDBEY ISLAND
PUGET SOUND
USELESS BAY
HOOD CANAL
PORT MADISON
BAINBRIDGE ISLAND
PORT ORCHARD
VASHON ISLAND
MAURY ISLAND
EAST PASSAGE
COLVOS PASSAGE
ELLIOTT BAY
SEATTLE
WEST SEATTLE
BALLARD
BREMERTON
East Bremerton
DYES INLET
Edmonds
Kingston
Port Gamble
Suquamish
Poulsbo
Winslow
Manchester
Port Orchard
Silverdale
Hansville
Point No Point
Foulweather Bluff
Hood Head
Squamish Harbor
Agate Passage
Rich Passage
Blake Island
Alki Pt
West Pt
Duwamish Head
Pt Jefferson
President Pt
Apple Cove Pt
Port Gamble Bay
Cultus Bay
Possession Pt
Scatchet Head
NORTHBOUND PUGET SOUND TRAFFIC LANE
SOUTHBOUND PUGET SOUND TRAFFIC LANE
SEPARATION ZONE
PRECAUTIONARY AREA
INSET 11 PAGE D
INSET 2 PAGE B
INSET 3 PAGE B
INSET 1 PAGE D
PORT MADISON INDIAN RESERVATION
NOTE A
Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. Additions or revisions to Chapter 2 are published in the Notices to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 13th Coast Guard District in Seattle, WA, or at the Office of the District Engineer, Corps of Engineers in Seattle, WA. Refer to charted regulation section numbers.
RACING BUOYS
Racing buoys within the limits of this chart are not shown hereon. Information may be obtained from the U.S. Coast Guard District Offices as racing and other privately maintained buoys are not all listed in the U.S. Coast Guard Light List.
CAUTION
Only marine radiobeacons have been calibrated for surface use. Limitations on the use of certain other radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and Defense Mapping Agency Publication 117.
Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.
Station positions are shown thus: (Accurate location) (Approximate location)
AIDS TO NAVIGATION
Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.
NOTE D
PORT ORCHARD
Strangers to Port Orchard, particularly Rich Passage, should not attempt to navigate these waters in thick weather because of strong tidal currents.
CAUTION
Small craft should stay clear of large commercial and government vessels even if small craft have the right-of-way.
All craft should avoid areas where the skin divers flag, a red square with a diagonal white stripe, is displayed.
CAUTION
Temporary changes or defects in aids to navigation are not indicated on this chart. See Notice to Mariners.
Improved channels shown by broken lines are subject to shoaling, particularly at the edges.
CAUTION
Mariners are warned to stay clear of the protective riprap surrounding navigational light structures shown thus:
LOCAL MAGNETIC DISTURBANCE


JOINS PAGE E
JOINS CASE INLET EXTENSION
Formerly 185 SC, 1st Ed., 1965
JOINS PAGE A
CASE INLET EXTENSION
SHELTON
HAMMERSLEY INLET
AIDS TO NAVIGATION
Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.
PICKERING PASSAGE
CASE INLET
KEY PENINSULA
HARTSTENE ISLAND
PEALE PASSAGE
TOTTEN INLET
Little Skookum Inlet
ELD INLET
BUDD INLET
OLYMPIA
Dana Passage
Henderson Inlet
CARR INLET
McNEIL ISLAND
ANDERSON ISLAND
Drayton Passage
Balch Passage
Pitt Passage
NISQUALLY REACH
Nisqually Flats
Nisqually Head
STEILACOOM
FOX ISLAND
HALE PASSAGE
THE NARROWS
GIG HARBOR
Henderson Bay
TACOMA
RUSTON
COMMENCEMENT BAY
DALCO PASSAGE
COLVOS PASSAGE
VASHON ISLAND
MAURY ISLAND
EAST PASSAGE
QUARTERMASTER HBR
POVERTY BAY
SOUTHBOUND PUGET SOUND TRAFFIC LANE
SEPARATION ZONE
NORTHBOUND PUGET SOUND TRAFFIC LANE
CAUTION
Temporary changes or defects in aids to navigation are not indicated on this chart. See Notice to Mariners.
Improved channels shown by broken lines are subject to shoaling, particularly at the edges.
CAUTION
Small craft should stay clear of large commercial and government vessels even if small craft have the right-of-way.
All craft should avoid areas where the skin divers flag, a red square with a diagonal white stripe, is displayed.
LOCAL MAGNETIC DISTURBANCE
Differences of as much as 3° from the normal variation have been observed along Henderson Inlet.
COURSES
Courses are TRUE and must be CORRECTED for any variation and compass deviation.
SCALE 1:80,000
NAUTICAL MILES
STATUTE MILES
YARDS
LATITUDE
LONGITUDE
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE


NOTE A
Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. Additions or revisions to Chapter 2 are published in the Notices to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 13th Coast Guard District in Seattle, WA., or at the Office of the District Engineer, Corps of Engineers in Seattle, WA.
Refer to charted regulation section numbers.
RESTRICTED AREA 334.1250
(see note A)
Wyckoff Shoal
Obstr PA
Cable Area
SIGNAL TOWER NO. 5
Pitt I.
Floyd Cove
PITT PASSAGE
McNEIL ISLAND
Meridian
Mahnckes Pt
FILUCY BAY
Mc Dermott Pt
Tide rips
BALCH PASSAGE
RED SECTOR
Eagle I.
Otso Pt
MAGNETIC
SCALE 1:20,000
NAUTICAL MILES
YARDS
500
0
500
1000
122°44'
122°43'
122°42'
47°14'
47°13'
47°12'


SCALE 1:10,000
NAUTICAL MILES
0
YARDS
250
0
250
500
750
SHELTON
OAKLAND
BAY
96A
Ramp
TANK
Float
Tanks
Piling
Dolphin
Pile
Log Storage Area
Log Storage Area in ruins
Numerous subm piles and dolphins
Spit (awash HW)
Dolphins
Cable Area
Piles and dolphins
Numerous piling
Log Boom
Goldsborough Creek
Munson Pt
Eagle Pt
Surfaced Ramp
Miller Pt
Subm piling
Ruins
Snags
Conveyors
OSTACK
BNRR
US 101
MAGNETIC
VAR 20°00' E (1969)
ANNUAL DECREASE 4'
47°13'
123°06'
123°05'
123°04'

INSET 10

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

POLLUTION REPORTS

...rt all spills of oil and hazardous substances to the National ...se Center via 800-424-8802 (toll free), or to the nearest U.S. ... Guard facility if telephone communication is impossible ...R 153).

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. Additions or revisions to Chapter 2 are published in the Notices to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 13th Coast Guard District in Seattle, WA, or at the Office of the District Engineer, Corps of Engineers in Seattle, WA.

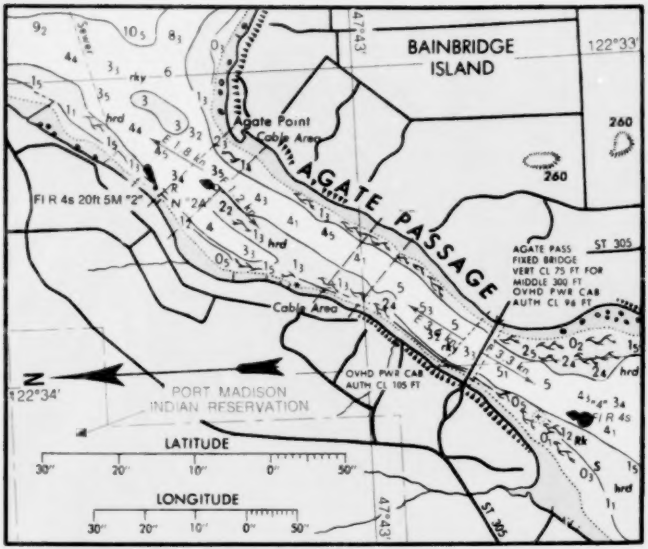
Refer to charted regulation section numbers.

NOTE B

Mariners are cautioned that the Washington State Ferries may deviate from the published standard routes due to inclement weather, traffic conditions, navigational hazards or other emergency conditions.

COLREGS, 80.1395 (see note A)

...ternational Regulations for Preventing Collisions at Sea, 1972. ...he entire area of this chart falls seaward of the COLREGS Demarcation



INSET 2

SCALE 1:25,000

NAUTICAL MILES

0 1/4 1/2 3/4 1

YARDS

Ed. 1965

ALKI POINT LIGHT

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Notice to Mariners.

CAUTION

Improved channel shown by broken lines are subject to shoaling, particularly at the edges.

RADAR REFLECTORS

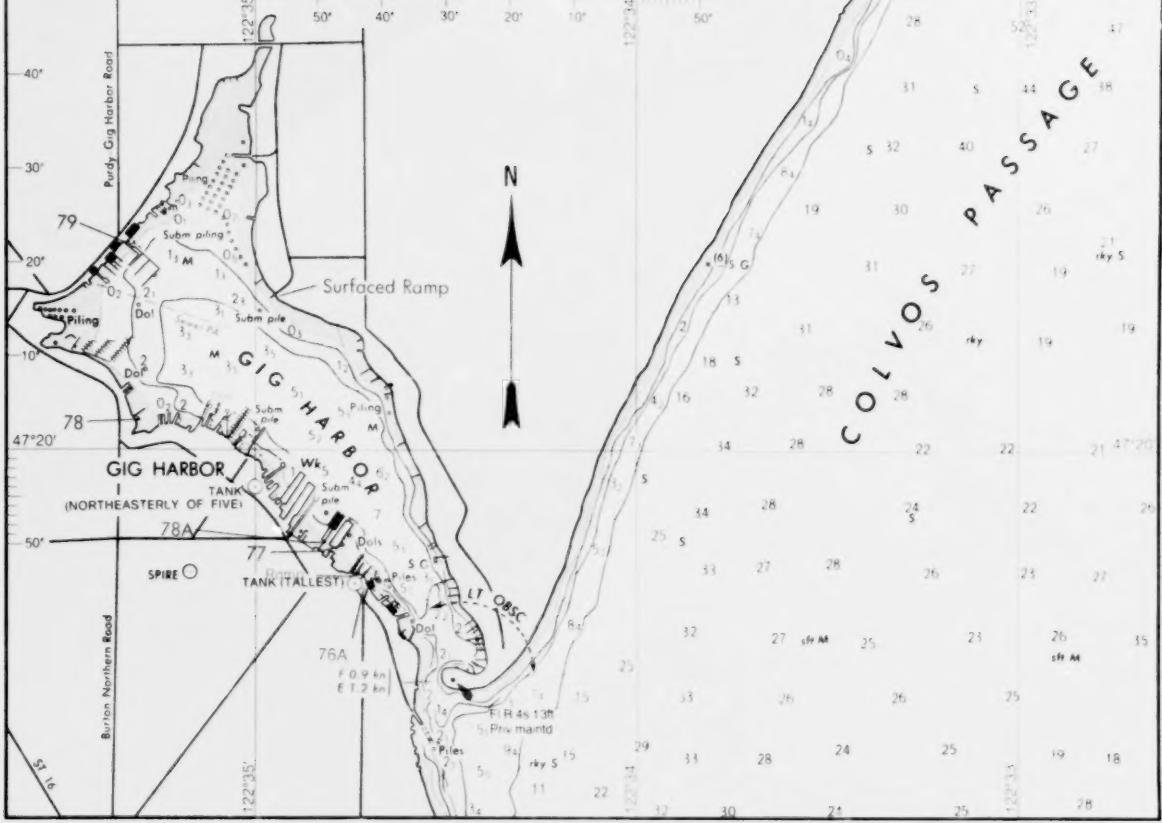
Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

CAUTION

Small craft should stay clear of large commercial and government vessels even if small craft have the right-of-way.

CAUTION

All craft should avoid areas where the skin divers flag, a red square with a diagonal white stripe, is displayed.



SCALE 1:20,000

NAUTICAL MILES

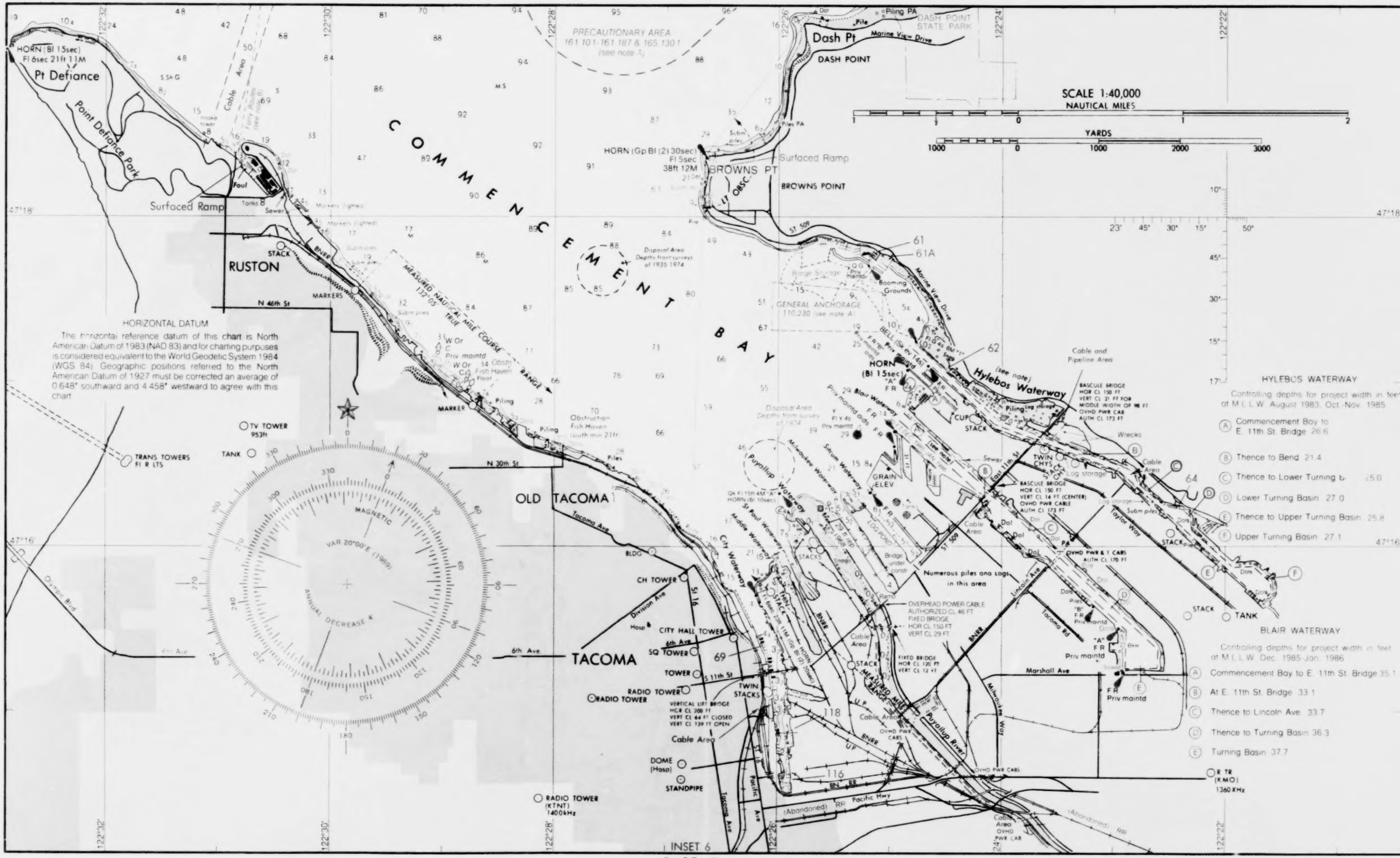
½ 0 ½ 1

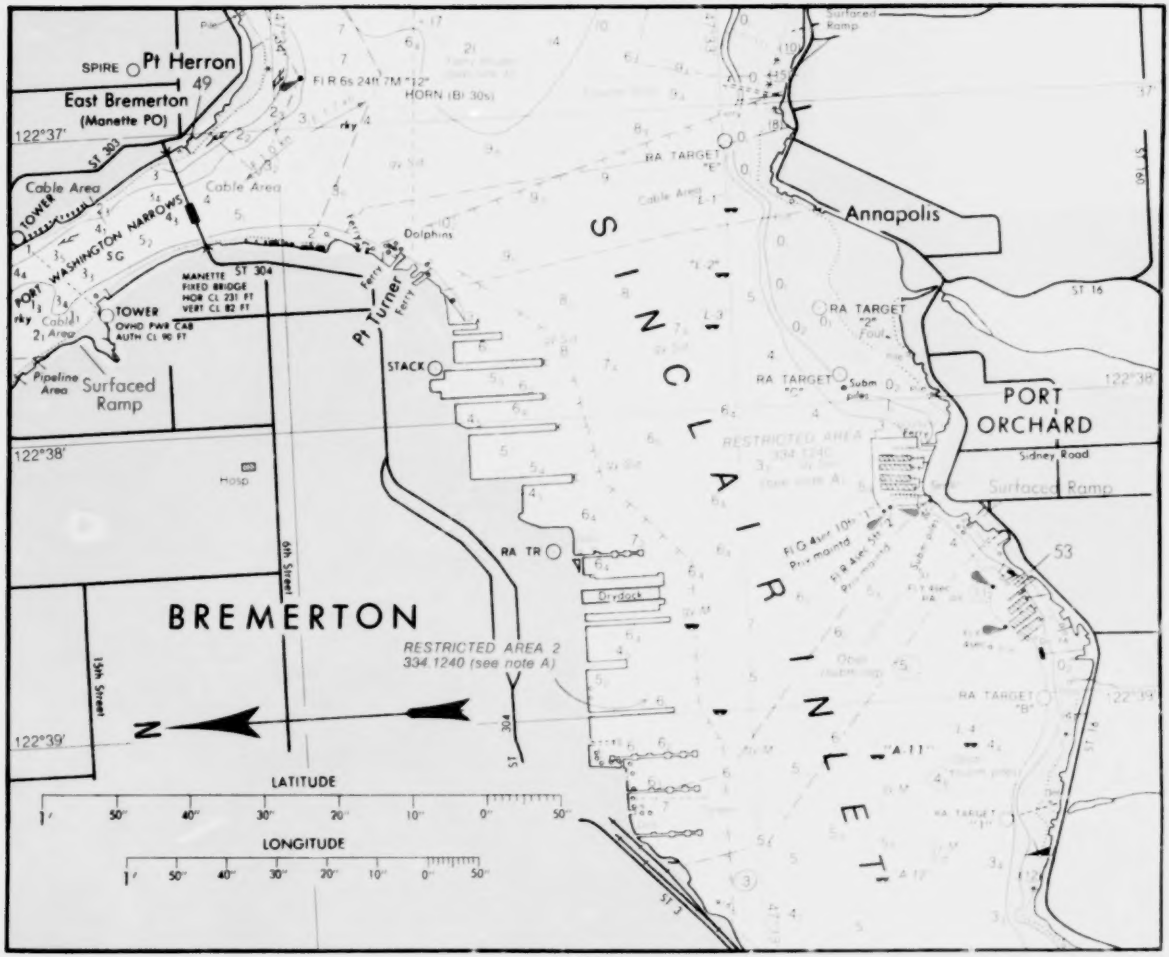
YARDS

500 0 500 1000 1500

NOAA SHIP FAIRWEATHER

FAIRWEATHER is a hydrographic survey ship of 1627 tons and a length of 231 feet. It was designed to chart U.S. coastal waters and help provide safe navigation for commercial shipping and recreational boating. FAIRWEATHER has a welded steel hull strengthened for navigation in ice and is propelled by twin screw diesel engines through reversible pitch propellers controlled from either the engine room or the bridge. The ship is equipped with the latest electronic depth recording and positioning equipment.


COMMENCEMENT BAY
PRECAUTIONARY AREA
161.101-161.187 & 165.1301
(see note A)
SCALE 1:40,000
NAUTICAL MILES
YARDS
HORN (Bl 15sec)
Fl 6sec 21ft 11M
Pt Defiance
Point Defiance Park
Surfaced Ramp
RUSTON
STACK
BNRR
MARKERS
N 46th St
MEASURED NAUTICAL MILE COURSE
132°05' TRUE
RANGE
MARKER
Piling
Obstn
Fish Haven
Float
Disposal Area
Depths from surveys
of 1935-1974
HORIZONTAL DATUM
The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83) and for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.648" southward and 4.458" westward to agree with this chart.
TV TOWER
953ft
TANK
TRANS TOWERS
Fl R LTS
MAGNETIC
VAR 20°00'E (1969)
ANNUAL DECREASE 4
N 30th St
OLD TACOMA
Tacoma Ave
BLDG
CH TOWER
Division Ave
Hosp
CITY HALL TOWER
6th Ave
SQ TOWER
TOWER
S 11th St
RADIO TOWER
TWIN STACKS
VERTICAL LIFT BRIDGE
HOR CL 200 FT
VERT CL 64 FT CLOSED
VERT CL 139 FT OPEN
Cable Area
DOME
(Hosp)
STANDPIPE
RADIO TOWER
(KTNT)
1400kHz
TACOMA
Dash Pt
DASH POINT
DASH POINT STATE PARK
Marine View Drive
Piling PA
Pile
Piles PA
HORN (Gp Bl (2) 30sec)
Fl 5sec
38ft 12M
BROWNS PT
BROWNS POINT
Surfaced Ramp
-11' OBSC
ST 509
Booming Grounds
GENERAL ANCHORAGE
110.230 (see note A)
61
61A
62
64
HORN
(Bl 15sec)
"A"
FR
Hylebos Waterway
(see note)
Cable and
Pipeline Area
BASCULE BRIDGE
HOR CL 150 FT
VERT CL 21 FT FOR
MIDDLE WIDTH OF 98 FT
OVHD PWR CAB
AUTH CL 173 FT
Wrecks
CUP
STACK
Blair Waterway
Sitcum Waterway
Puyallup Waterway
Milwaukee Waterway
GRAIN
ELEV
TWIN
CHYS
Log storage
Taylor Way
Lincoln Ave
Tacoma Rd
OVHD PWR & T CABS
AUTH CL 170 FT
Numerous piles and logs
in this area
OVERHEAD POWER CABLE
AUTHORIZED CL 46 FT
FIXED BRIDGE
HOR CL 150 FT
VERT CL 29 FT
FIXED BRIDGE
HOR CL 120 FT
VERT CL 12 FT
Marshall Ave
Priv maintd
Middle Waterway
City Waterway
St Paul Waterway
Puyallup River
Milwaukee RWY
UP
BNRR
BNSF RR
Pacific Hwy
(Abandoned) RR
Tacoma Ave
Pacific Ave
OVHD PWR CABS
R TR
(KMO)
1360 KHz
HYLEBOS WATERWAY
Controlling depths for project width in feet at M.L.L.W. August 1983, Oct.-Nov. 1985
(A) Commencement Bay to E. 11th St. Bridge 26.6
(B) Thence to Bend 21.4
(C) Thence to Lower Turning b... 25.0
(D) Lower Turning Basin 27.0
(E) Thence to Upper Turning Basin 25.8
(F) Upper Turning Basin 27.1
BLAIR WATERWAY
Controlling depths for project width in feet at M.L.L.W. Dec. 1985-Jan. 1986
(A) Commencement Bay to E. 11th St. Bridge 35.1
(B) At E. 11th St. Bridge 33.1
(C) Thence to Lincoln Ave. 33.7
(D) Thence to Turning Basin 36.3
(E) Turning Basin 37.7
INSET 6

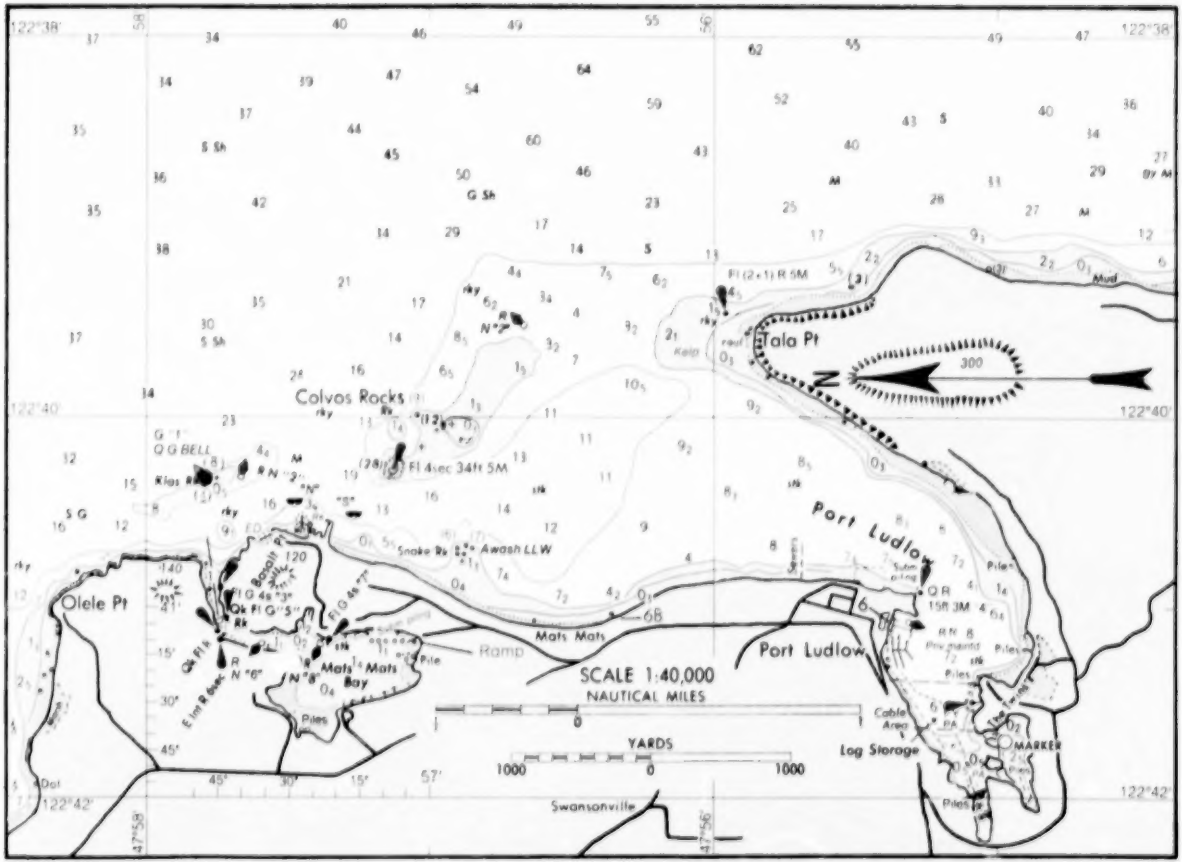


INSET 5

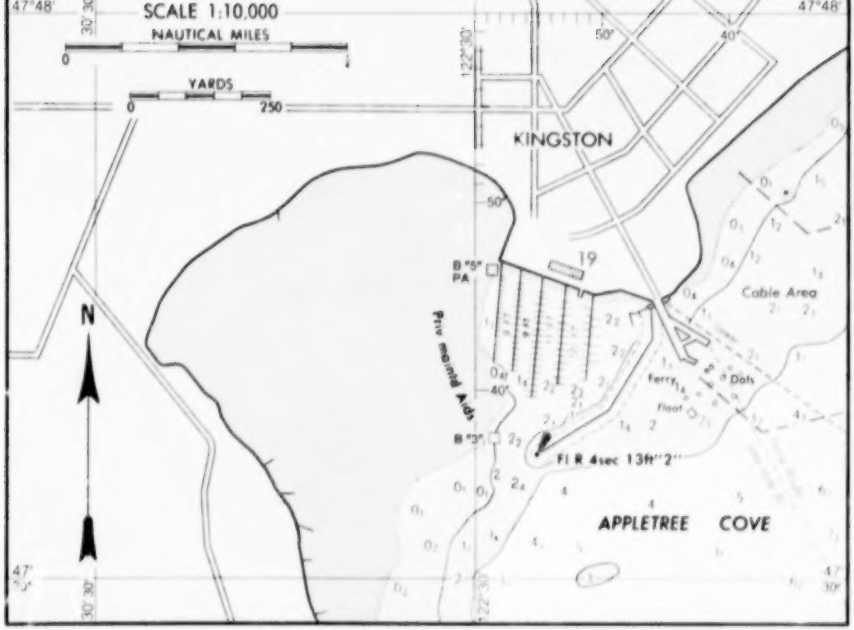
SCALE 1:25,000

NAUTICAL MILES

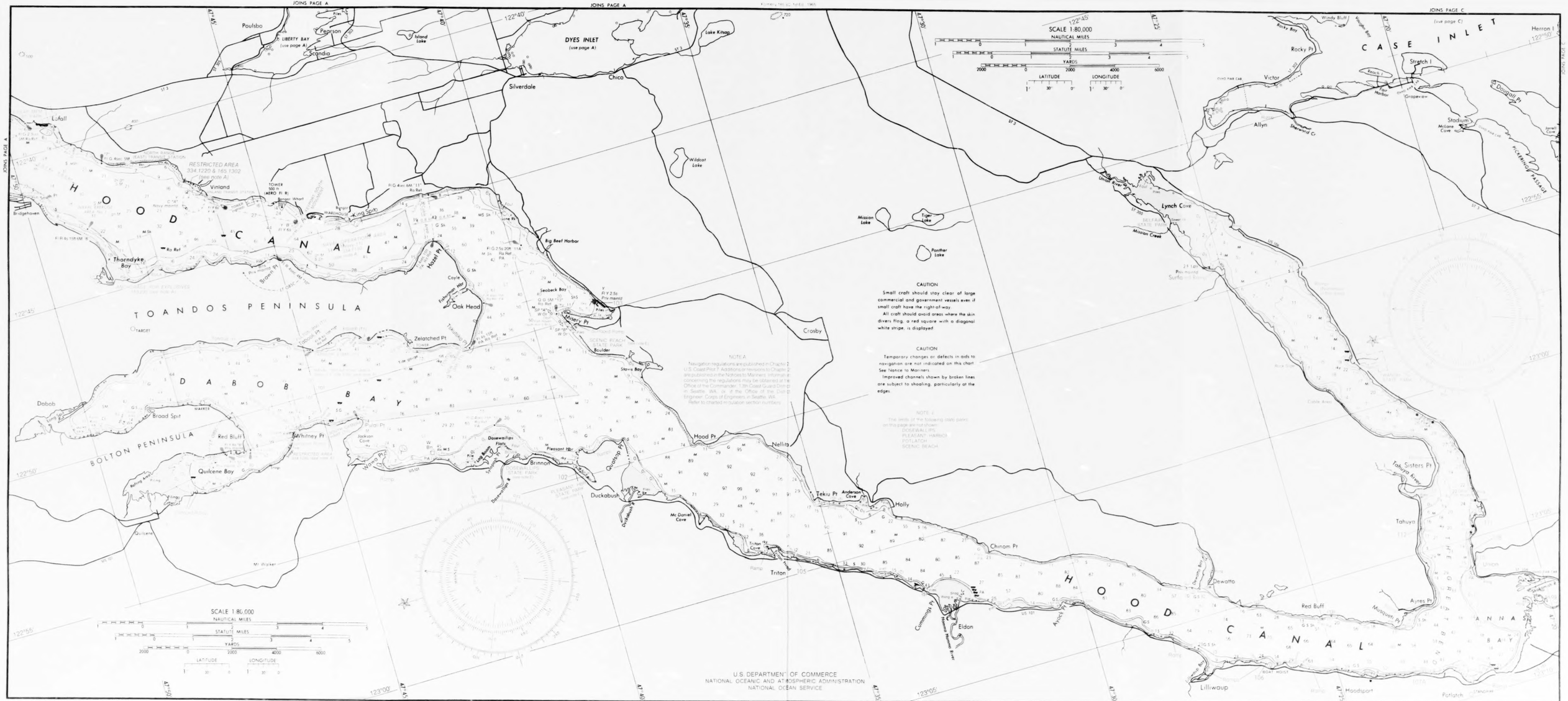
YARDS

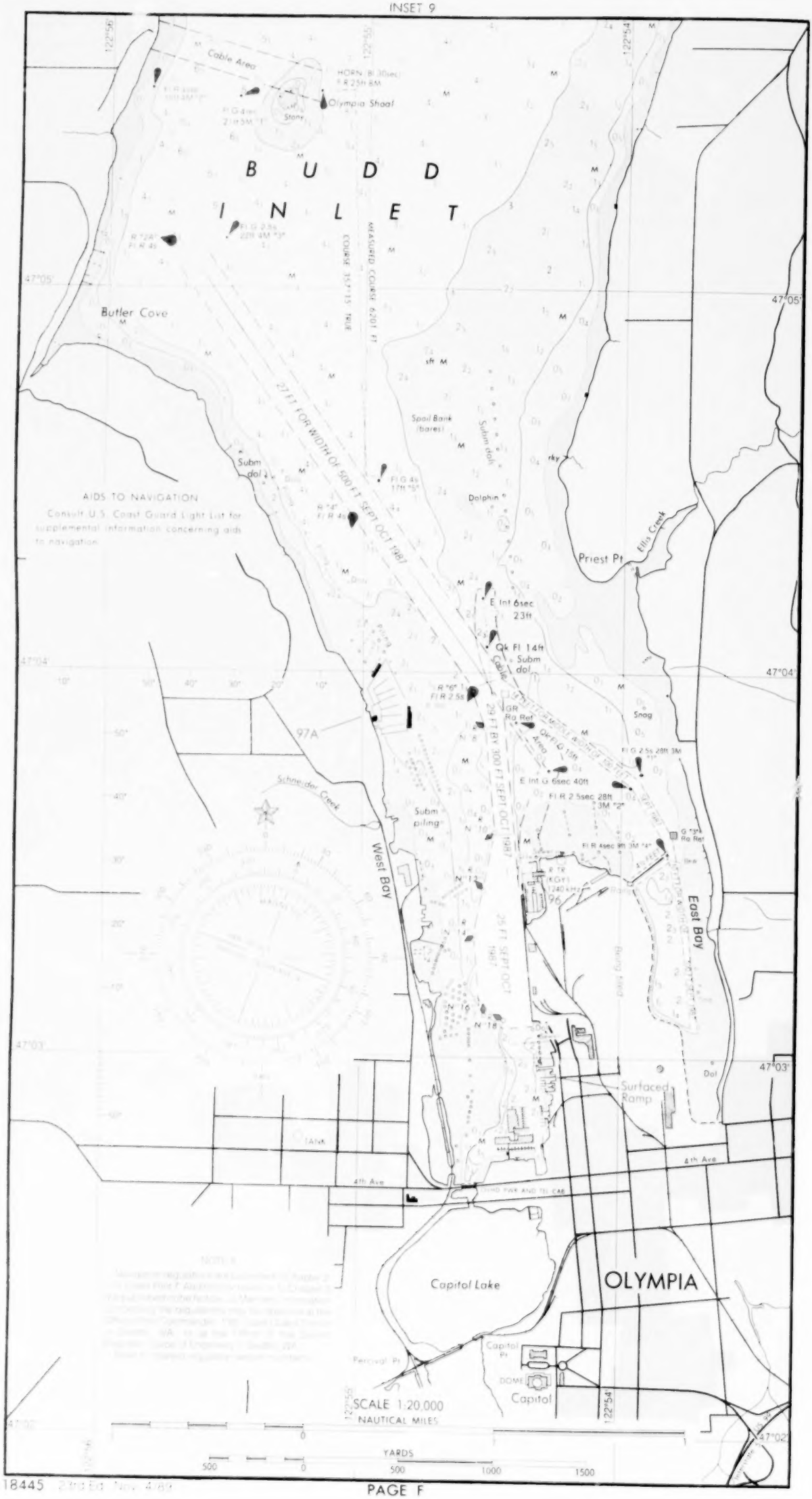

122°38'
122°40'
122°42'
47°58'
47°56'
Tala Pt
Colvos Rocks
Olele Pt
Port Ludlow
Mats Mats
Mats Mats Bay
Ramp
Swansonville
Log Storage
Cable Area
MARKER
Piles
Mud
Kelp
Fl (2+1) R 5M
Fl 4sec 34ft 5M
Q G BELL
Snake Rk
Awash LLW
SCALE 1:40,000
NAUTICAL MILES
YARDS
1000
0
1000

INSET 1


SCALE 1:10,000
NAUTICAL MILES
0
1
YARDS
0
250
47°48'
30'
122°30'
50'
40'
KINGSTON
19
B "S"
PA
Cable Area
N
Pave mound Ads
Ferry
Float
Dolphin
B "S"
Fl R 4sec 13ft "2"
APPLETREE COVE
47'
30'

INSET 11


JOINS PAGE A
JOINS PAGE A
JOINS PAGE C
(use page C)
Poulsbo
Pearson
Scandia
LIBERTY BAY
(use page A)
Island Lake
DYES INLET
(use page A)
Lake Kitsap
Silverdale
Chico
Wildcat Lake
Lofall
Vinland
RESTRICTED AREA
334.1220 & 165.1302
(see note A)
TOWER
500 ft
AERO Fl R
Bangor Wharf
WAREHOUSE
King Spits
Bridgehaven
Thorndyke Bay
Stuart Pt
Hazel Pt
Big Beef Harbor
Seabeck Bay
Misery Pt
Oak Head
Fairgrounds Hill
Crosby
Boulder
Stavis Bay
Zelatched Pt
Tskutsko Pt
Dabob
Broad Spit
Red Bluff
Whitney Pt
Jackson Cove
Pulali Pt
Quilcene Bay
Quilcene
Mt Walker
Wonn Pt
Dosewallips
Flats
Pleasant Hbr
Brinnon
Dosewallips R
Quatsap Pt
Duckabush
Duckabush R
Hood Pt
Nellita
Tekiu Pt
Anderson Cove
Holly
Mc Daniel Cove
Triton Cove
Triton
Chinom Pt
Cummings Pt
Dosewallips River
Eldon
Ayres Pt
Dewatto
Red Buff
Musquet Pt
Lilliwaup
Hoodsport
Potlatch
Tahuya
Sisters Pt
Tahuya River
Union
Rocky Bay
Windy Bluff
Vendovi Bay
Rocky Pt
Victor
Allyn
Shelton Cr
Stretch I
Four Mile Harbor
Grapeview
Herron I
Douglas Pt
Stadium
McLane Cove
Lynch Cove
Mission Creek
Mission Lake
Tiger Lake
Panther Lake
Union River
Surfside Beach
HOOD CANAL
TOANDOS PENINSULA
BOLTON PENINSULA
DABOB BAY
CASE INLET
PICKERING PASSAGE
ANNAS BAY
SCALE 1:80,000
NAUTICAL MILES
STATUTE MILES
YARDS
LATITUDE
LONGITUDE
CAUTION
Small craft should stay clear of large commercial and government vessels even if small craft have the right-of-way.
All craft should avoid areas where the skin divers flag, a red square with a diagonal white stripe, is displayed.
CAUTION
Temporary changes or defects in aids to navigation are not indicated on this chart. See Notice to Mariners.
Improved channels shown by broken lines are subject to shoaling, particularly at the edges.
NOTE A
NOTE E
DOSEWALLIPS
PLEASANT HARBOR
POTLATCH
SCENIC BEACH
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE


BUDD INLET
Cable Area
HORN B 30sec
FR 25ft 8M
Olympia Shoal
Stony
MEASURED COURSE 6201 FT
COURSE 315°-135° TRUE
Butler Cove
27 FT FOR WIDTH OF 500 FT SEPT OCT 1987
Spoil Bank (bares)
Subm dol
Dolphin
Priest Pt
Ellis Creek
AIDS TO NAVIGATION
Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation
E Int 6sec 23ft
Qk Fl 14ft
Subm dol
29 FT BY 300 FT SEPT OCT 1987
Snag
97A
Schneider Creek
Subm piling
West Bay
East Bay
E Int G 6sec 40ft
FIR 2.5sec 28ft 3M "2"
FIR 4sec 9ft 3M "4"
25 FT SEPT OCT 1987
Surfaced Ramp
4th Ave
Capitol Lake
OLYMPIA
Capitol Pt
DOME
Capitol
Percival Pt
SCALE 1:20,000
NAUTICAL MILES
YARDS
500
0
500
1000
1500
122°56'
122°54'
47°05'
47°04'
47°03'
47°02'

SEATTLE, WASHINGTON,

Predicted times and heights of high and low water. Pacific Standard Time. For Daylight Saving Time, add 1 hour. To predict local tide, apply the time difference listed in the facility subordinate to these tide predictions.

FEBRUARY 1990	MARCH 1990	APRIL 1990	MAY 1990
Day Time ft. Day Time ft.	Day Time ft. Day Time ft.	Day Time ft. Day Time ft.	Day Time ft. Day Time ft.

OCTOBER 1990	NOVEMBER 1990	DECEMBER 1990	JANUARY 1991
Day Time ft. Day Time ft.	Day Time ft. Day Time ft.	Day Time ft. Day Time ft.	Day Time ft. Day Time ft.

Times are in hours and minutes based on the 24-hour clock. Heights are referred to mean lower low water or the chart datum of soundings.

SEATTLE, WASHINGTON,

Predicted times and heights of high and low water. Pacific Standard Time. For Daylight Saving Time, add 1 hour. To predict local tide, apply the time difference listed in the facility subordinate to these tide predictions.

JUNE 1990	JULY 1990	AUGUST 1990	SEPTEMBER 1990
Day Time ft. Day Time ft.	Day Time ft. Day Time ft.	Day Time ft. Day Time ft.	Day Time ft. Day Time ft.

FEBRUARY 1991	MARCH 1991	APRIL 1991	MAY 1991
Day Time ft. Day Time ft.	Day Time ft. Day Time ft.	Day Time ft. Day Time ft.	Day Time ft. Day Time ft.

Times are in hours and minutes based on the 24-hour clock. Heights are referred to mean lower low water or the chart datum of soundings.

SAFETY HINTS

1. Keep your chart up to date by applying all Notices to Mariners corrections when you receive them.
2. Read carefully all notes printed on your chart; each is vital to your safety afloat.
3. Learn the meaning of each symbol and abbreviation on your chart from Chart No. 1.
4. The compass on your chart shows the variation from true north. However you must also correct your bearings for the deviation of your boat.
5. Constantly use your chart from the beginning to end of each trip. Keep in mind the orientation of your boat with respect to the chart.
6. Maintain your position on the chart by relating charted features with those you can identify in your surroundings.
7. Storm warning display locations and small craft warning signals have been charted for your safety.

Currents

DISTANCE OF THE HORIZON

The following table gives the distance of a visible object of the stated height for various heights of the eye above sea level. The actual distance cannot be computed accurately

Height feet	Nautical miles	Height feet	Nautical miles	Height feet	Nautical miles	Height feet	Nautical miles	Height feet	Nautical miles	Height feet	Nautical miles
1	1.1	6	2.6	11	3.6	16	4.4	21	5.0	26	5.6
2	1.6	7	2.8	12	3.8	17	4.5	22	5.2	27	5.7
3	2.0	8	2.9	13	4.1	18	4.6	23	5.3	28	5.8
4	2.3	9	3.4	14	4.3	19	4.8	24	5.4	29	5.9
5	2.5	10	3.5	15	4.4	20	4.9	25	5.5	30	6.0

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions or comments for improving this chart to the Director, Charting and Geodetic Services (N/CG22), National Ocean Service, NOAA, Rockville, Maryland 20852.

18445

best copy available